APPENDIX A

MATRIX FOR IMPLEMENTING COMPLIANCE WITH OPERATIONS AND MAINTENANCE PLAN (O&M PLAN), CONTINGENCY ACTION PLAN (CAP) AND COVENANT TO RESTRICT USE OF PROPERTY (COVENANT)

TASK	REFERENCE	RESPONSIBLE ENTITY	SCHEDULE FOR PERFORMANCE	REPORTING METHOD AND SCHEDULE
Conduct land survey to document GPS coordinates for (1) the area at western end of South Valley that does not require special OE safety precautions, (2) City owned open space at northern boundary of Project Site where TNT strips were located and (3) Wetlands Risk Reduction Area (as defined in	§§ 2.8.1 and 2.8.2(a) of O&M Plan and § 1.1 of Covenant	PBH	Complete survey no later than July 15, 2004.	Provide copy of survey report with GPS Coordinates for subject areas to DTSC and City of Benicia within fifteen (15) days following survey completion. As required by § 1.1 of Covenant, no later than July 15, 2004, record document
After US Alert confirms ability to participate in contemplated arrangements with City (as discussed in § 4.2 of CAP), provide GPS coordinates or other survey information for Restricted Areas in format compatible with US Alert's system (US Alert Deliverables)	§3.6 of O&M Plan and § 4.2 of CAP	PBH to support City by providing GPS or other survey information needed by US Alert	As soon as reasonably practicable following confirmation of US Alert arrangements with City and identification of US Alert Deliverables.	Provide report to DTSC and the City on delivery of US Alert Deliverables, within fifteen business days after delivery to US Alert.

Appendix A, Implementation Matrix Operations and Maintenance Plan Tourtelot Cleanup Project, Benicia, California

TASK	DOCUMENT	RESPONSIBLE	SCHEDULE FOR	REPORTING METHOD
	REFERENCE	ENTITY	PERFORMANCE	AND SCHEDULE
Wetlands Monitoring Task 1	§ 3.1.1 and	PBH, using	Construction activities	Provide to DTSC a copy of
	Appendix B of	Wetlands	have commenced and	Report documenting
Construct mitigation wetlands in	O&M Plan	Research	are to be completed no	wetlands development that
accordance with requirements in		Associates, Inc.	later than June 30,	is required by Section 6.3 of
Wetlands Mitigation Plan,		and/or other	2004. Installation of	the Wetlands Mitigation
Tourtelot Cleanup Project, Benicia,		appropriate	wetland plants in	Plan. Report to be provided
California, approved May 2001 by		contractor	newly constructed	to DTSC concurrently with
Regulatory Branch, San Francisco			area to occur in winter	submittal to USACE
District, U.S. Army Corps of			of 2004 after	Regulatory, the California
Engineers (USACE Regulatory), as			sustained rainy	Department of Fish and
amended.			seasons has begun.	Game (CDFG) and
				Regional Water Quality Control Board (RWOCB).
Wetlands Monitoring Task 2	Appendix B of	PBH, using	Annually for five	Provide to DTSC a copy of
	O&M Plan	Wetlands	years following	each annual report that is
Perform annual wetlands		Research	development of	required by Section 6.3 of
monitoring, as required under		Associates, Inc.	mitigation wetlands.	the Wetlands Mitigation
Section 6.0 of the Wetlands		and/or other	First field monitoring	Plan. Report to be provided
Mitigation Plan		appropriate	event will occur in	to DTSC concurrently with
		contractor	Spring of 2005, after	submittal to USACE
			rainy season, with first	Regulatory, CDFG and
			report filed by late	RWQCB.
			summer or early fall	

TASK	DOCUMENT REFERENCE	RESPONSIBLE ENTITY	SCHEDULE FOR PERFORMANCE	REPORTING METHOD AND SCHEDULE
At end of five year monitoring period, prepare final evaluation report describing success of mitigation in meeting performance criteria and of any necessary corrective measures undertaken.	Appendix B of O&M Plan	PBH, using Wetlands Research Associates, Inc. and/or other appropriate contractor	Five years after completion of development of mitigation wetlands.	Provide to DTSC a copy of the final evaluation report. Report to be provided to DTSC concurrently with submittal to USACE Regulatory, CDFG and RWQCB.
Wetlands Monitoring Task 4 If USACE Regulatory determines that additional efforts are required following submittal of the final evaluation report, implement the required efforts. Otherwise, wetlands monitoring will terminate following submittal of the final evaluation report.	Appendix B of O&M Plan	PBH, using Wetlands Research Associates, Inc. and/or other appropriate contractor	As determined by USACE Regulatory.	Provide to DTSC copies of all reports submitted to USACE Regulatory to report compliance with additional requirements.

Task 2 System and sections under Task 1 reveal System (a) and system (b) ISC on any action required under Task 1 reveal Plan Wetlands will be action required under Task 1 remedial steps will be action required under Task 1 remedial steps will be action required under Task 1 remedial steps will be action required under Task 1 reveal Plan Associates Inc. PRH's responsibility

TASK	DOCUMENT REFERENCE	RESPONSIBLE ENTITY	SCHEDULE FOR PERFORMANCE	REPORTING METHOD AND SCHEDULE
Wetlands Risk Reduction Areas Task 3	§§ 2.8.2(a) and 3.1.2 of O&M Plan and	City of Benicia	Annually. First annual report due May 15, 2005	Provide annual report to DTSC on sign inspection, using Annual Inspection
Conduct annual inspections of	Appendix D of		15, 2005.	using Annual Inspection and Report Form (Appendix
described in Section 2.8.2(a) of	O&M Plan			D to O&M Plan).
O&M Plan and repair signs, if				
required, to keep them in good condition.				
Wetlands Risk Reduction Areas Task 4	Section 3.1.2 of O&M Plan.	City	Monitoring to occur annually, commencing	City's first annual report on monitoring of plants will be
Beginning in Spring of 2010 the			oping or 2010.	City's five year reports
City is to take over responsibility				starting May 30, 2014 and
for annual monitoring of thorny				every five years thereafter
plants installed as referenced in				will also cover plant
Wetlands Risk Reduction Areas				monitoring.
Task 1. Monitoring is to confirm				1
that plants are remaining viable and				
self sustaining. If plants are not remaining viable, City is to				
implement measure to improve				
their viability.				

TASK	DOCIMENT	DESPONSIBI E	SCHEDITI E EOB	DEBODTING METHOD
	REFERENCE	ENTITY		AND SCHEDULE
Slope Stability/Erosion	§ 3.2 and	City of Benicia	Annually following	Provide Report on periodic
Monitoring Task 1	Appendix C of O&M Plan	(Public Works Department or	end of rainy season. First annual report due	monitoring of erosion and
Conduct annual erosion and slope		outside City	May 15, 2005.	other parties to 0&M using
stability monitoring of monitoring		consultant)	•	Annual Inspection and
oareas identified in Appendix C of O&M Plan (Slope Stability and				Report Form (Appendix D to O&M Plan).
Erosion Monitoring Plan) and				SO COMPLET THEY
compare to the baseline condition described in such Plan.				
Slope Stability/Erosion	§ 3.2 and	Any party to	Any time condition is	If Excavation Activities are
Monitoring Task 2	Appendix C of	0&M Agreement	observed after on-site	required in Restricted Areas
	O&M Plan; if	who becomes	remedial activities are	to repair erosion features or
If slope instability or erosion is	applicable, § 5.0	aware of such	completed.	slope instability, report on
observed in the Historical	of CAP	slope instability		Excavation Activities as
Landslide Areas that could		or erosion		required by Section 5.0 of
potentially expose OE, comply		problems to		the CAP.
with site stabilization and		report same to		
		DTSC and City		
Appendix C to the O&M Plan. If		for appropriate		
Activities in Restricted Areas.		he conducted by		
comply with the provisions of		City.		
Section 5.0 of CAP in conducting				
the Excavation Activities.				

Water Monitoring Task 1 Conduct surface water monitoring.	Land Bridge Mesh Barrier Inspection Task 2 For Five Year Review, submit report to DTSC evaluating the findings during the five year inspection period and make recommendations to the DTSC for any proposed modification and/or termination of the inspection requirements.	Inspection Task 1 Inspection Task 1 Inspect physical integrity of Land Bridge Mesh Barrier, looking for signs of rust or corrosion and to confirm barrier remains securely staked to Land Bridge slopes. The report should indicate if the Mesh Barrier requires replacement.	TASK
§ 3.4.1 of O&M Plan	§ 5.0 and Appendix E of O&M Plan	§ 3.3 of O&M Plan	DOCUMENT REFERENCE
PBH, using appropriate contractor	City of Benicia (Public Works Department or outside City Consultant)	City of Benicia (Public Works Department or outside City consultant)	RESPONSIBLE ENTITY
Semi-annually for two years. Next monitoring event will occur in fall of 2004.	First Five Year Report is due by May 30, 2009. Every five years thereafter	Annually [for 30 years]. First annual report due May 15, 2005.	SCHEDULE FOR PERFORMANCE
Submit Report to DTSC within 60 days after the monitoring occurs.	Submit report to DTSC, using Five Year Inspection and Report Form (Appendix E to O&M Plan).	Provide Report on inspection to DTSC and other parties to O&M using Annual Inspection and Report Form (Appendix D to O&M Plan).	REPORTING METHOD AND SCHEDULE

TASK		THE PARTY IS		
	REFERENCE	ENTITY	SCHEDULE FOR PERFORMANCE	REPORTING METHOD AND SCHEDULE
Water Monitoring Task 2 §	§ 3.4.2 of O&M	PBH, using	Semi-annually for two	Submit Report to DTSC
Pl Conduct subdrain monitoring.	Plan	appropriate contractor	years. Next monitoring event will occur in fall of 2004.	within 60 days after the monitoring occurs.
Water Monitoring Task 3	§ 3.4.3 of O&M Plan	PBH, using	Semi-annually for two	Submit Report to DTSC
Conduct seep monitoring.		appropriate contractor	years. Next monitoring event will occur in fall of 2004.	within 60 days after the monitoring occurs.
Water Monitoring Task 4	§ 4.11 of	Any party to	Whenever damage to	Provide written notice to
, wells are OTSC and make		who becomes aware of damage	is discovered.	discovery and complete necessary repairs within
пссезану перанз.		shall notity PBH who shall make necessary repairs.		thirty days of discovery (unless a longer time is authorized by DTSC).
Water Monitoring Task 5 §§	§§ 3.4.1, 3.4.2 and 3.4.3 of	PBH, using appropriate	After two years of water monitoring	Submit report to DTSC.
Submit report to DTSC evaluating the findings during the two year water monitoring period and make recommendations to the DTSC for any proposed modification and/or termination of the monitoring requirements and removal of the groundwater monitoring wells		contractor	water monitoring.	

TASK	DOCUMENT REFERENCE	RESPONSIBLE ENTITY	SCHEDULE FOR PERFORMANCE	REPORTING METHOD AND SCHEDULE
Water Monitoring Task 6	§ 3.4.5 of O&M	PBH, using	After DTSC approves	Removal of monitoring well
A Para Diagram	Plan	appropriate	termination of water	in OE Construction Support
After DISC approves termination		contractor and	monitoring.	Areas (slope of McAllister
or water monitoring, PBH to		using OE		Land Bridge) requires
remove groundwater monitoring		Construction		submittal of work plan for
WEIIS		Support to		DTSC approval. Report on
		remove	•	removal of monitoring
		monitoring well		wells within 45 days of
		on slope of Land		completion. Also provide
		Bridge		any other reports required
				as a result of work in OE
				Construction Support Area
				and OE Notice Areas (e.g.
				reports on any OE items
				encountered) in accordance
				with requirements of CAP
				Section.

TASK	DOCUMENT REFERENCE	RESPONSIBLE ENTITY	SCHEDULE FOR PERFORMANCE	REPORTING METHOD AND SCHEDULE
Institutional Controls Compliance Monitoring Task 1	§ 3.5 and Appendix D of O&M Plan	City of Benicia (Community Development	Annually (for 30 years). First annual report due May 15.	Provide Report to DTSC and other parties to O&M using Annual Inspection
Report annually to DTSC on compliance with Covenant. Describe any zoning changes and special use permits for Restricted Areas made with DTSC approval; notify DTSC of any such zoning changes or special use permits legally required without an opportunity to obtain DTSC's prior approval. Confirm that except for such items, no zoning changes or special use permits affecting the Restricted Use Areas have occurred.	O&M Plan	Development) Department)	report due May 15, 2005.	using Annual Inspection and Report Form (Appendix D to O&M Plan).
Institutional Controls Compliance Monitoring Task 2 Report annually to DTSC on approvals processed by the City to allow Excavation Activities in Restricted Areas and notify DTSC of the nature and scope of the Excavation Activities that occur pursuant to such approvals.	§ 3.5 and Appendix D of O&M Plan, § 8.1 of CAP and §4.7 of Covenant	City of Benicia (Public Works Department)	Annually (for 30 years). First annual report due May 15, 2005.	Provide Report on inspection to DTSC and other parties to O&M using Annual Inspection and Report Form (Appendix D to O&M Plan).

TASK	DOCUMENT	RESPONSIBLE	SCHEDITE FOR	REPORTING METHOD
	REFERENCE	ENTITY	PERFORMANCE	AND SCHEDULE
Institutional Controls Compliance Monitoring Task 3	§ 3.5 and Appendix D of	City of Benicia (Public Works		Provide Report on inspection to DTSC and
Monitor Restricted Areas to identify any unauthorized	O&M Plan	outside City Consultant)	2005.	Annual Inspection and Report Form (Appendix D
perpetrators to cease unauthorized activities and monitor compliance.				10 Occivi i iaii).
If no compliance, take further action to curtail under enforcement				
provisions of Benicia Zoning Code.				
Institutional Controls	§ 5 and	City of Benicia	First Five Year Report	Submit report to DTSC,
Monitoring Task 4	Appendix E of O&M Plan	(Public Works Department and	is due by May 30, 2009. Every five	using Five Year Inspection and Report Form (Appendix
For Five Year Review, submit report to DTSC evaluating the		Community Development	years thereafter.	E to O&M Plan).
findings during the five year compliance monitoring period and		Department)		
make recommendations to the DTSC for any proposed modification and/or termination of				
the monitoring requirements.				

	REFERENCE	ENTITY	PERFORMANCE	AND SCHEDULE
Oversight of Excavation Activities in Restricted Areas Task 1	§ 3.6 of O&M Plan and § 4.2 of CAP	City of Benicia (Public Works Department) with support from	Finalize arrangements as soon as reasonably practicable.	City to provide letter report to DTSC on outcome of efforts to implement arrangements with US Alert
Work with Underground Service Alert (US Alert) to implement special arrangements for US Alert to provide notification to City of Benicia personnel when US Alert is informed of potential Excavation Activities in a Restricted Area.	is	support from PBH		arrangements with US Alert promptly after outcome is known.
Oversight of Excavation Activities in Restricted Areas Task 2	§ 4.2 of CAP	City of Benicia (Public Works Department)	When applicable.	Reporting on Excavation Activities in Restricted Areas will occur under Institutional Controls
If US Alert notifies City of marking of underground utilities in Restricted Area, confirm that any planned Excavation Activities have been authorized by City. If nonauthorized persons have requested marking, notify them of restrictions on Excavation Activities. Conduct follow up checks to confirm no unauthorized Excavation Activities are undertaken.	e 1			Compliance Monitoring Tasks 1 and 2.

TASK	DOCUMENT REFERENCE	RESPONSIBLE ENTITY	SCHEDULE FOR PERFORMANCE	REPORTING METHOD AND SCHEDULE
Oversight of Excavation	§§ 4.3 and 5.1 of	City of Benicia	Initial marking of	Notify DTSC within fifteen
Activities in Restricted Areas	CAP	(Public Works	plans to occur as	days after initial marking of
Task 3		Department) with	promptly as	plans is completed.
		support from	reasonably	
Add notations to City As Built		PBH for initial	practicable. For "As	
Plans and Permit Plans to show		marking of plans	Built Plans", the	Notify DTSC within 45
Restricted Areas. Notations to be		1	marking will occur	days whenever updates are
included on As Built Plans to refer			after all nonremedial	made.
to CAP requirements if Excavation			grading under grading	
Activities occur in Restricted			permit issued by the	
Areas. Notations to be included on			City in connection	
Permit Plans regarding restrictions			with the cleanup	
on changes in zoning and issuance			project is completed	
of special use permits under			and as-build drawings	
Covenant and prohibition on issue			are submitted to City	
Encroachment Permits for			(estimated to require	
Restricted Areas. If OE-Energetic			45-60 days after date	
item is found in any area not			of O&M Agreement).	
designated as an OE Construction			Undates to be made	
Support Area, update As Built			when applicable	
Plans and Permit Plans as described			wиси аррисаотс.	
in CAP Section 5.1.				

TASK	DOCUMENT	RESPONSIBLE	SCHEDITE FOR	REPORTING METHOD
	REFERENCE	ENTITY		AND SCHEDULE
Oversight of Excavation Activities in Restricted Areas	§ 5.2.1 of CAP	City of Benicia (Public Works	When applicable.	Provide review copy of Work Plan to DTSC at least
Task 6		Department)		30 days prior to planned
When non omorrow Europetica				start date; respond to any
Activities are to occur in OF				comments provided by
Construction Support Areas				DTSC at least 5 days prior
submit Work Plan for DTSC				to start date.
review. Utilize OE Construction				
Support during Excavation				
ACIIVIIIES.				
Oversight of Excavation Activities in Restricted Areas	§ 5.2.2 of CAP	City of Benicia	When applicable.	Notify DTSC orally within
Task 7		Department)		Excavation Activities are
When emergency Excavation				required. When the
Activities are to occur in OE				heen addressed the City
Construction Support Areas, notify DTSC orally. Utilize OF				shall promptly notify DTSC
construction support during				days after work the City
Excavation Activities. Take only				shall provide a written
action necessary to address		-		report to DTSC.
emergency. Any additional work				1
to be performed under a Work Plan				
as described in Task 6.				

TASK	DOCUMENT REFERENCE	RESPONSIBLE ENTITY	SCHEDULE FOR PERFORMANCE	REPORTING METHOD AND SCHEDULE
Oversight of Excavation Activities in Restricted Areas Task 8	§ 5.2.1 of CAP	City of Benicia (Public Works Department)	When applicable.	Provide oral notice to DTSC of OE discovery within 48 hours. Within 10 hasiness days provide
If OE-Energetic or OE-Like item is located during Excavation Activities in OE Construction Support Area, notify DTSC.				written report.
Reporting; Communications Task 1	§ 6.0 of CAP	All parties to O&M Agreement who become	Any time an OE incident occurs on Project Site after the	If OE-Energetic or OE-Like item is located on Project Site, give oral notice to
If any report is made to the City, including its Police and Fire Department, involving any reported encounter with OE or potential OE items on the Project Site after the Remediation Completion Date, comply with requirements of Section 6.0 of CAP		aware of such an incident.	Remediation Completion Date.	DTSC within 48 hours. Within fifteen business days provide written report to DTSC. If no OE-Energetic or OE-Like item is found, report incident on City's annual report to DTSC.
Public Awareness/Educational Programs Task 1	§ 3.7.1 of O&M Plan	City of Benicia	Not applicable.	Not Applicable
Facilitate use of Camel Barn Museum for Benicia Arsenal education display to be developed by USACE as part of its operations and maintenance plan for the Benicia Arsenal.				

Appendix A, Implementation Matrix Operations and Maintenance Plan Tourtelot Cleanup Project, Benicia, California

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i AS n	REFERENCE	ENTITY	PERFORMANCE	AND SCHEDULE
Public Awareness/Educational Programs Task 2	§ 3.7.2 of O&M Plan	PBH to provide to City of Benicia	30,000 copies have been provided to the	Not Applicable
Provide copies of USACE developed educational brochures to City of Benicia to be distributed annually to residences and business with City of Benicia water bills			Ç.	
Public Awareness/Educational Programs Task 3	§ 3.7.2 of O&M Plan	City of Benicia (Finance	Annually, commencing in May,	Report filed annually with DTSC, using Annual
Annually include educational brochure as insert to water bills		Department)	2005.	Inspection and Report Form (Appendix D to O&M Plan). First annual report due May 15, 2005
Public Awareness/Educational Programs Task 4	§ 3.7.3 of O&M Plan and § 7.3 of CAP	City of Benicia (Human Resources	Annually. First annual report due May 15, 2005.	Report filed annually with DTSC, using Annual Inspection and Report Form
Coordinate annual presentation of USACE's training video or other suitable training to personnel in City of Benicia Police Department and Fire Department		Department)		(Appendix D to O&M Plan).

TASK	DOCUMENT REFERENCE	RESPONSIBLE ENTITY	SCHEDULE FOR PERFORMANCE	REPORTING METHOD AND SCHEDULE
Public Awareness/Educational Programs Task 5	§ 3.7.4 of O&M Plan and § 7.1 and Anneadiv C	PBH and City of Benicia	Training materials have been prepared	Not applicable.
Establish training program materials for periodic training of personnel in City's Community Development Department and Public Works Department.	and Appendix C of CAP		and are included as Appendix C to CAP.	
Educational Programs Task 6	§ 3.7.4 of O&M Plan and § 7.1 of	City of Benicia	Annually. First	Report filed annually with
Oversee annual training of appropriate City Planning Department personnel, using training materials developed under Task 5.	CAP	Resources Department)	15, 2005	Inspection and Report Form (Appendix D to O&M Plan)
Educational Programs Task 7	§ 5 of O&M	City of Benicia	First Five Year Report	Submit report to DTSC,
For Five Year Review, submit report to DTSC evaluating the	Plan	(Community Development	is due by May 30, 2009.	using Five Year Inspection and Report Form (Appendix
educational programs and make		Public Works		
any proposed modification and/or		Department, Police		
termination of the educational program requirements.		Department, Fire Department and		
		Human Resources		
		Department)		